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COMPOSITE OPTICAL ELEMENT, OPTICAL HEAD, AND OPTICAL MEMORY DEVICE

Patent Number: JP10021577
Publication date: 1998-01-23
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Requested Patent: ☐ JP10021577

Application Number: JP19960173382 19960703

Priority Number(s):

IPC Classification: G11B7/135 ; G11B7/125 ; G11B7/13

EC Classification:

Equivalents:

Abstract

PROBLEM TO BE SOLVED: To obtain an optical memory device having a long life by packaging plural number of light sources to enable their beams of light to travel in an approximately parallel direction with a photodetector substrate and changing their optical paths with a reflecting mirror.

SOLUTION: A semiconductor laser 101 having emitting light wavelength 780nm, and a semiconductor laser 102 having emitting light wavelength 650nm are package on a photodiode substrate 103. This substrate 103 is formed with the reflecting mirror 104, and the light beams emitted from the semiconductor lasers 101 and 102 are traveled approximately parallel to the substrate 103, and their optical paths are changed in an approximately vertical direction to the substrate 103 by the reflecting mirror 104. The substrate 103 is formed with plural divided photodetector parts 105 and 106, and is also formed with a monitor photodiode 107 for monitoring the light emitting amts. The diode 107 is one unit capable of monitoring individual light quantities from two light sources.



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